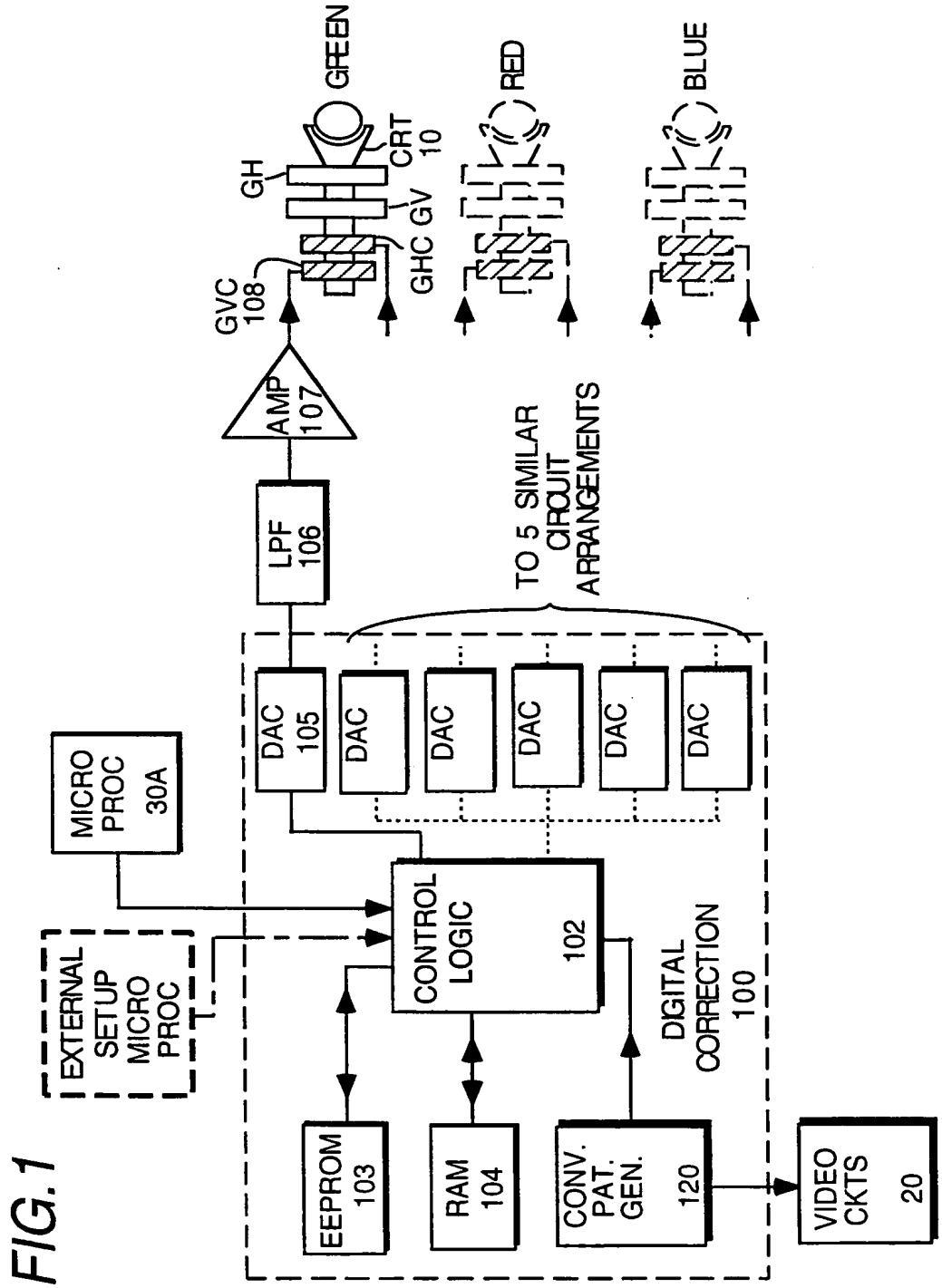

GREEN
RED
BLUE
CRT
10
GH
GV
GHC
GVC
108
AMP
107
LPF
106
TO 5 SIMILAR CIRCUIT ARRANGEMENTS
DAC
105
DAC
DAC
DAC
DAC
DAC
MICRO PROC
30A
CONTROL LOGIC
102
EXTERNAL SETUP MICRO PROC
DIGITAL CORRECTION
100
EEPROM
103
RAM
104
CONV. PAT. GEN.
120
VIDEO CKTS
20

FIG. 1

FIG. 2

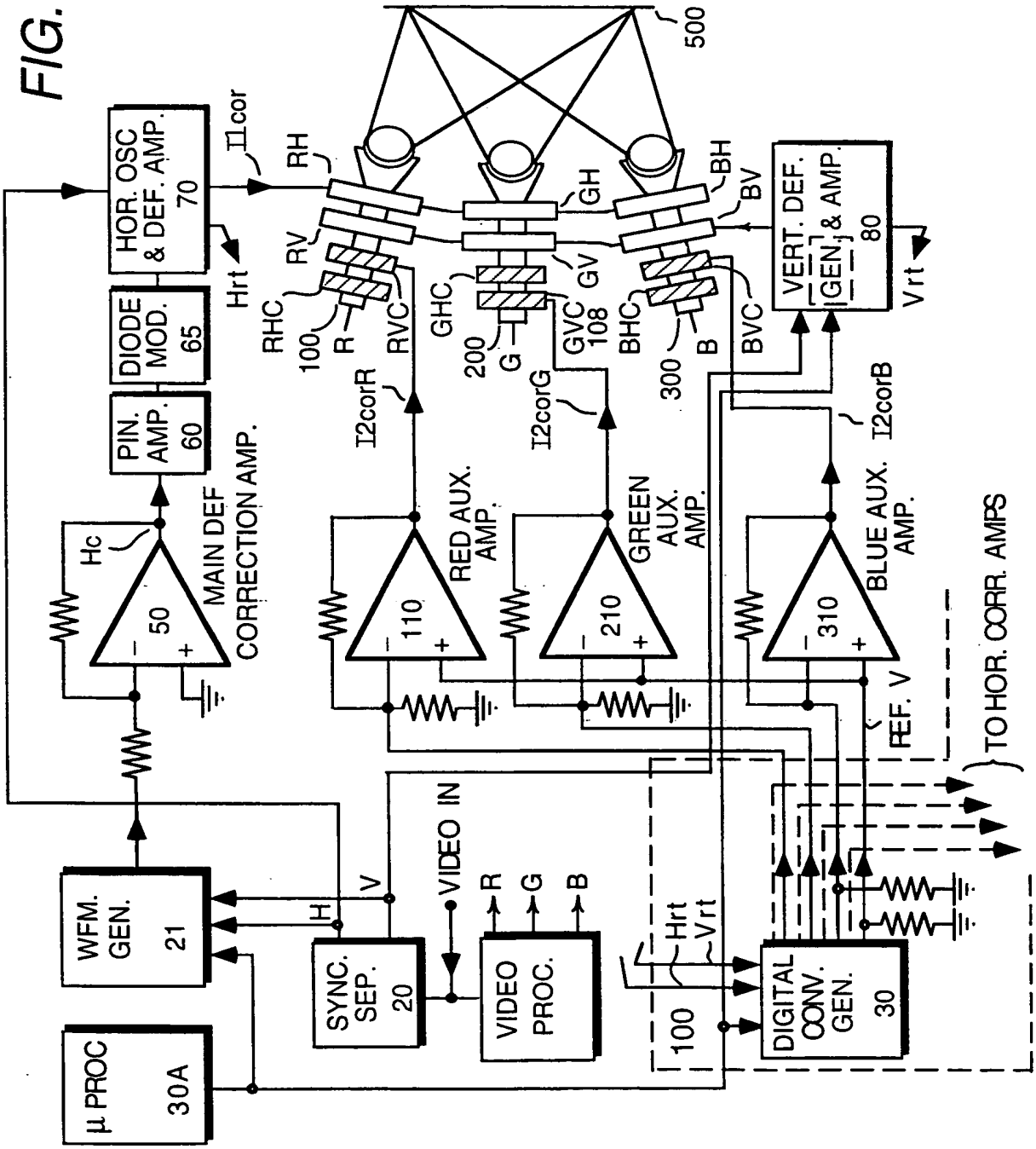

500
HOR. OSC & DEF. AMP. 70
I1cor
RH
RV
GH
BH
BV
Hrt
RHC
RVC
GHC
GVC
BHC
BVC
100
R
200
G
108
GV
300
B
VERT. DEF. GEN. & AMP. 80
Vrt
DIODE MOD. 65
PIN. AMP. 60
MAIN DEF CORRECTION AMP.
Hc
50
I2corR
I2corG
I2corB
RED AUX. AMP.
110
GREEN AUX. AMP.
210
BLUE AUX. AMP.
310
REF. V
TO HOR. CORR. AMPS
WFM. GEN. 21
H
V
VIDEO IN
R
G
B
SYNC. SEP. 20
VIDEO PROC.
Hrt
Vrt
100
DIGITAL CONV. GEN. 30
µ PROC 30A

FIG.3

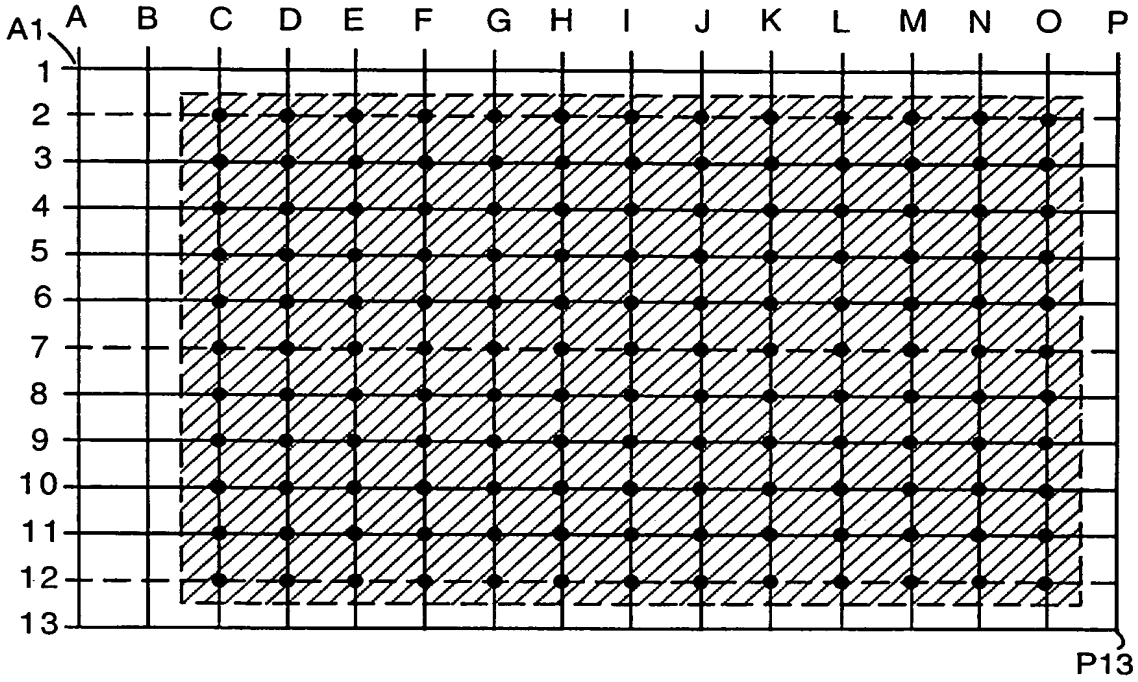

A1
A B C D E F G H I J K L M N O P
1 2 3 4 5 6 7 8 9 10 11 12 13
P13

FIG.4

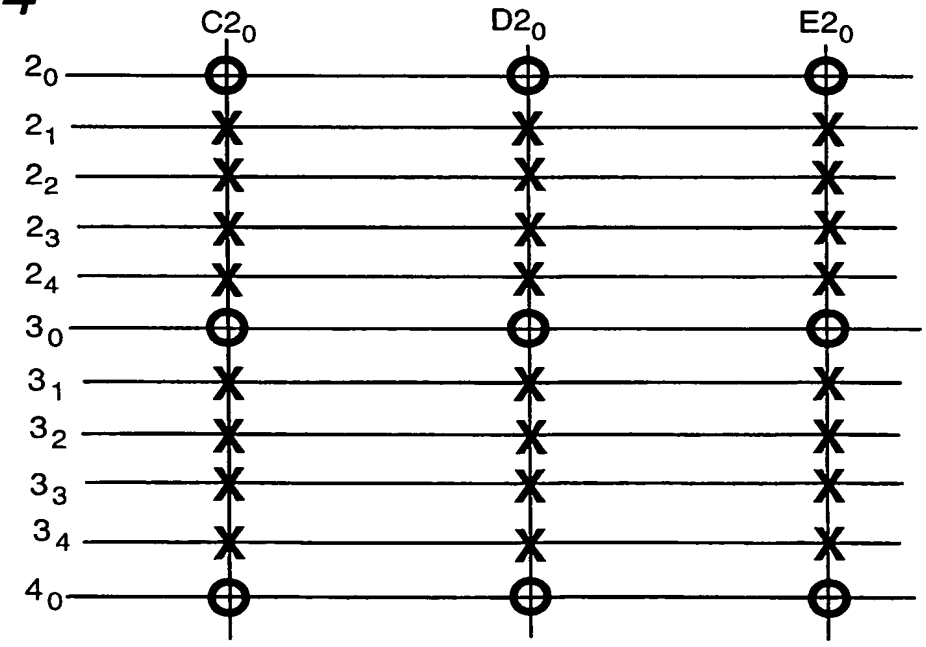

C2$_0$
D2$_0$
E2$_0$
2$_0$
2$_1$
2$_2$
2$_3$
2$_4$
3$_0$
3$_1$
3$_2$
3$_3$
3$_4$
4$_0$

FIG. 5

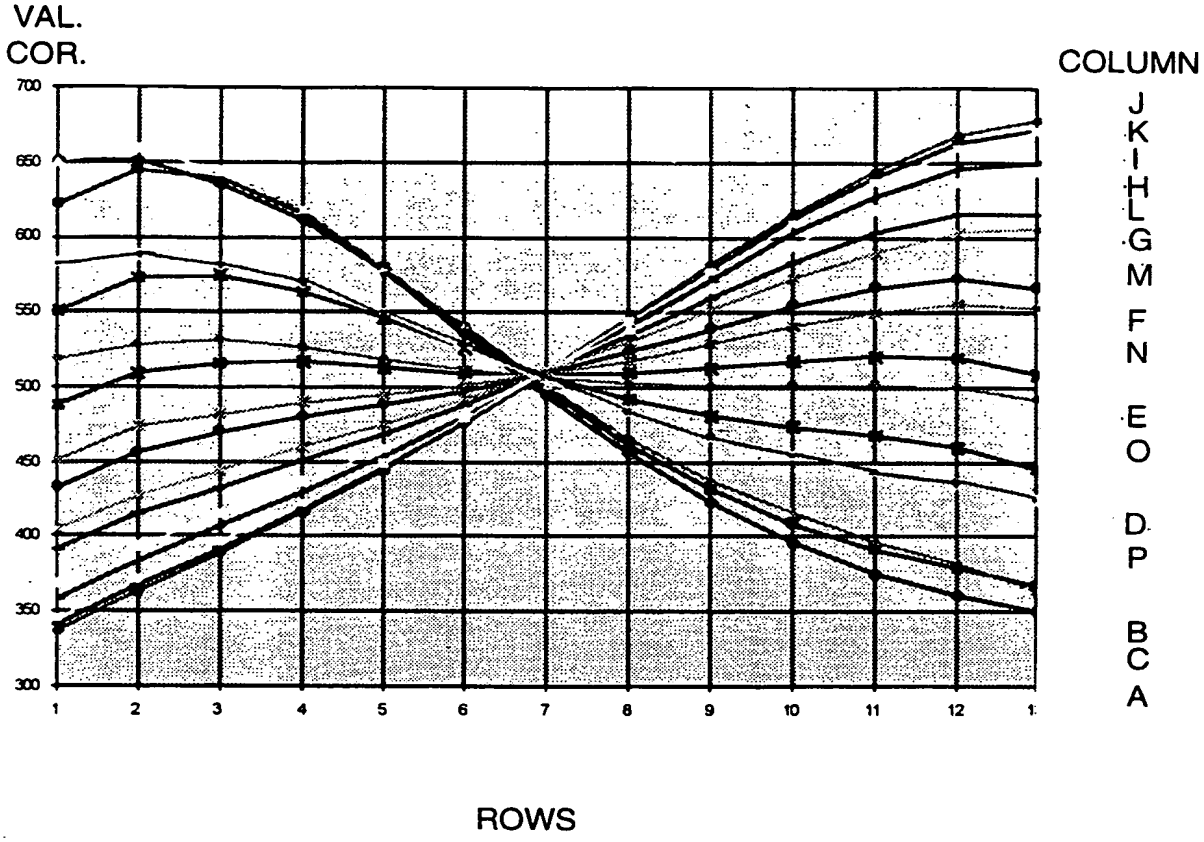

VAL.
COR.
700
650
600
550
500
450
400
350
300
1
2
3
4
5
6
7
8
9
10
11
12
COLUMN
J
K
I
H
L
G
M
F
N
E
O
D
P
B
C
A
ROWS

FIG. 6

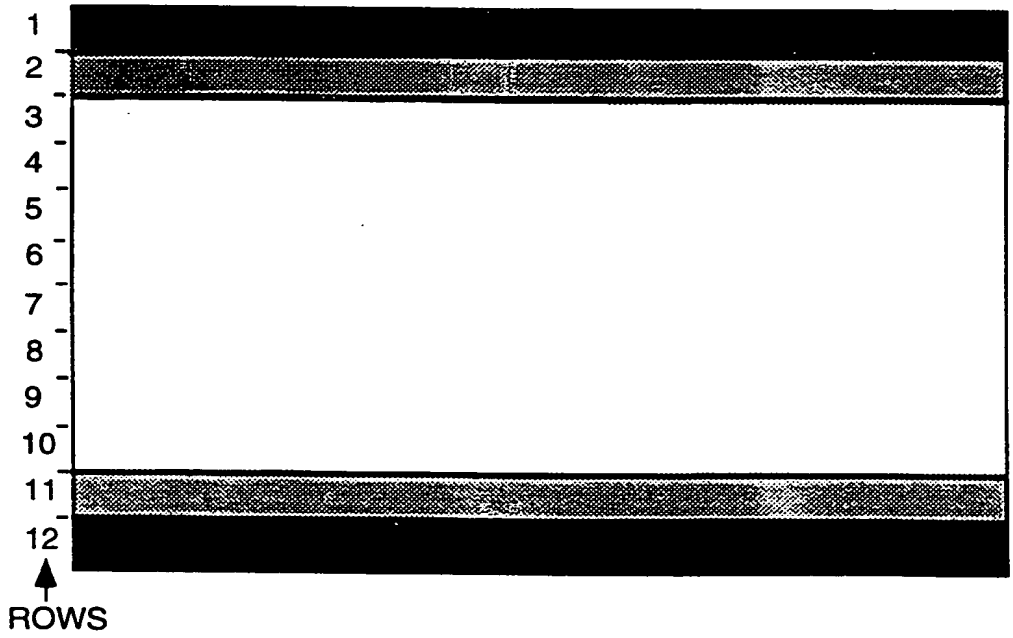

1
2
3
4
5
6
7
8
9
10
11
12
ROWS

FIG. 7

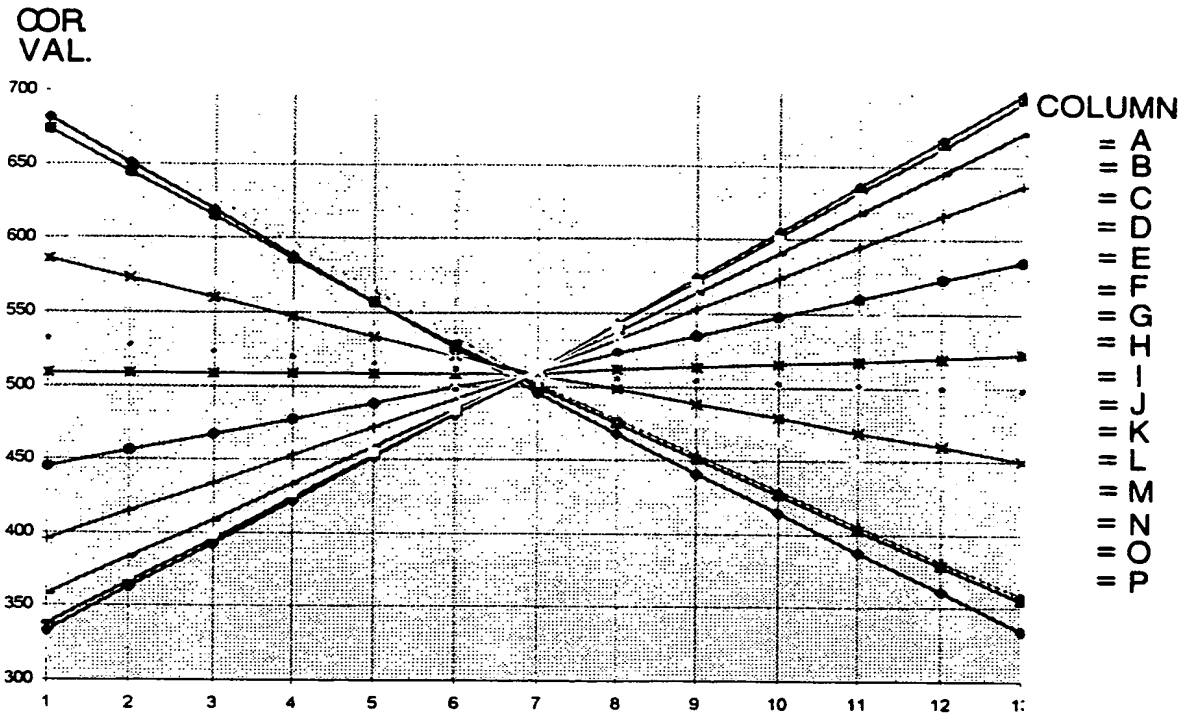

COR
VAL.
700
650
600
550
500
450
400
350
300
1
2
3
4
5
6
7
8
9
10
11
12
COLUMN
= A
= B
= C
= D
= E
= F
= G
= H
= I
= J
= K
= L
= M
= N
= O
= P

FIG. 8

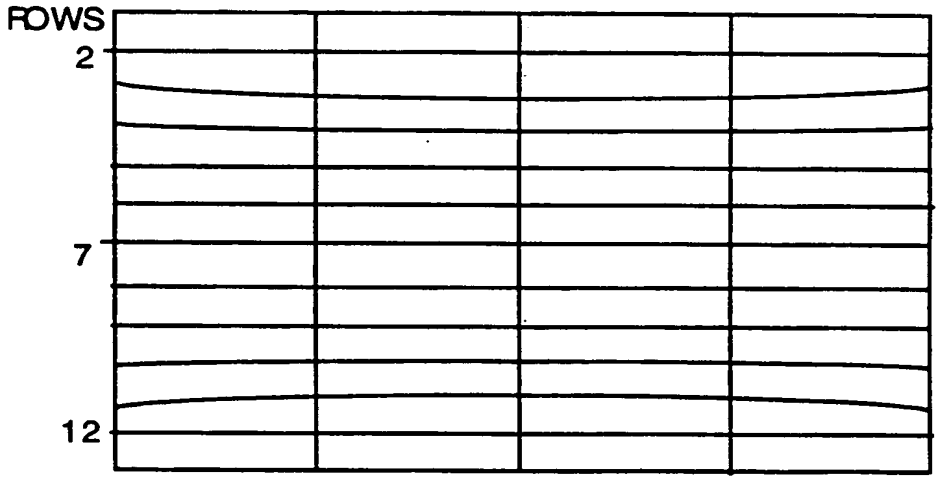

ROWS
2
7
12

FIG.9

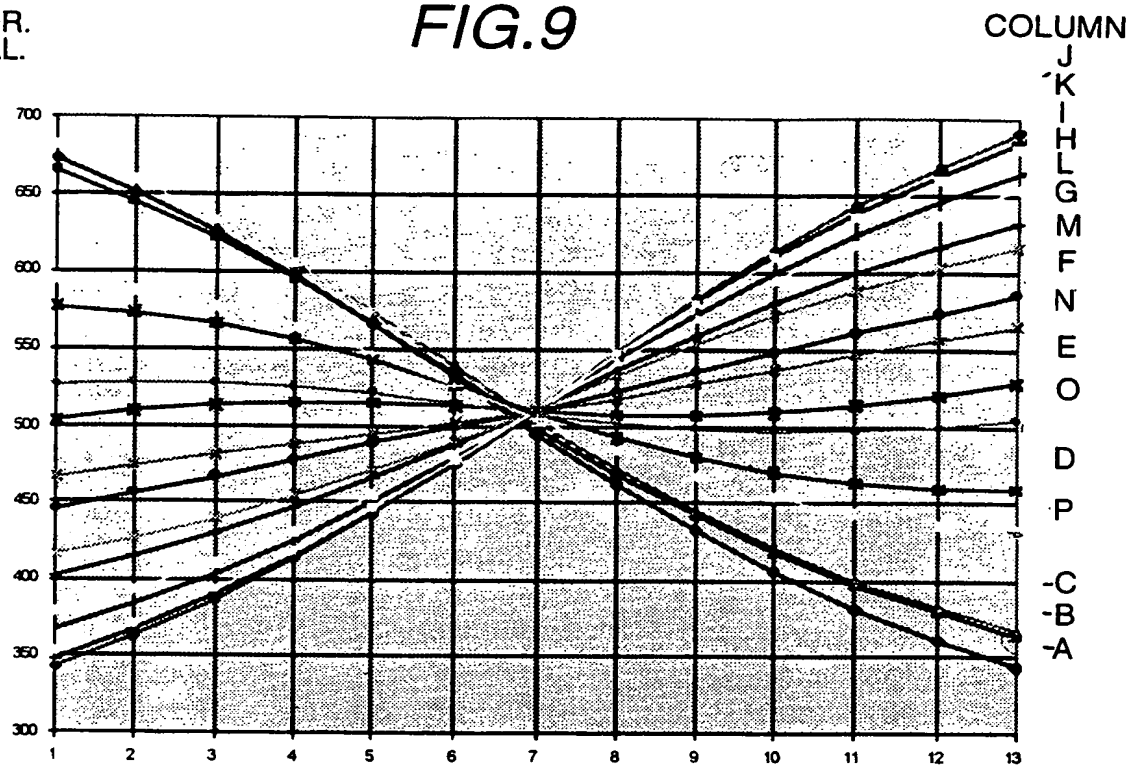


FIG. 11A

GIVEN

$C_1 = 100$

$C_5 = 500$

Nodes N = 5

Then Slope (d/dt)

$$= \frac{C_5 - C_1}{N-1}$$

$$= \frac{500 - 100}{4} = 100$$

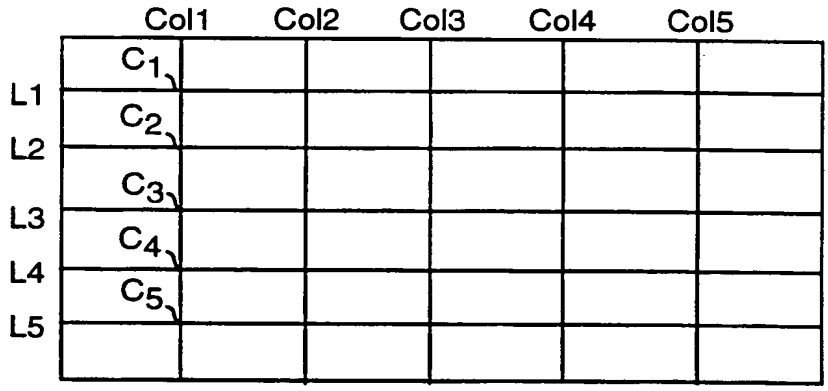
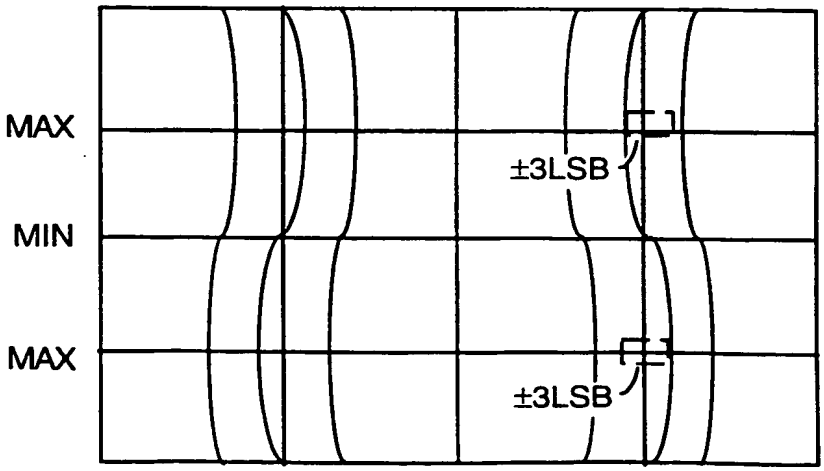


FIG. 11B



008720 0h658h60

FIG. 10

COLUMNS

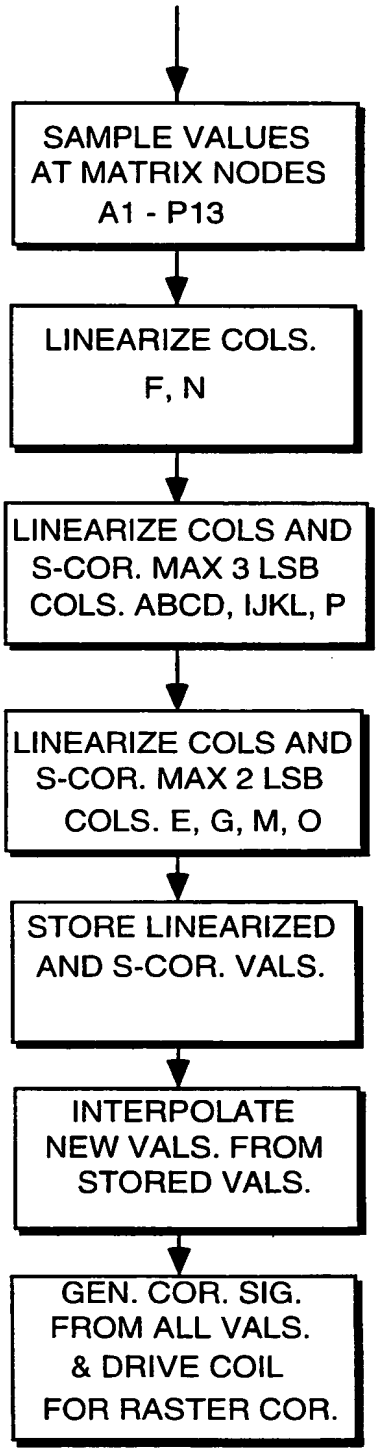
1 (A)	2 (B)	3 (C)	4 (D)	5 (E)	6 (F)	7 (G)	8 (H)
A7+1.2*(A2-A7)-9	B7+1.2*(B2-B7)-9	C7+1.2*(C2-C7)-9	D7+1.2*(D2-D7)-9	E7+1.2*(E2-E7)-6	F7+1.2*(F2-F7)	G7+1.2*(G2-G7)+6	H7+1.2*(H2-H7)+9
A2	B2	C2	D2	E2	F2	G2	H2
A7+0.8*(A2-A7)+6	B7+0.8*(B2-B7)+6	C7+0.8*(C2-C7)+6	D7+0.8*(D2-D7)+6	E7+0.8*(E2-E7)+4	F7+0.8*(F2-F7)	G7+0.8*(G2-G7)-4	H7+0.8*(H2-H7)-6
A7+0.6*(A2-A7)+9	B7+0.6*(B2-B7)+9	C7+0.6*(C2-C7)+9	D7+0.6*(D2-D7)+9	E7+0.6*(E2-E7)+6	F7+0.6*(F2-F7)	G7+0.6*(G2-G7)-6	H7+0.6*(H2-H7)-9
A7+0.4*(A2-A7)+9	B7+0.4*(B2-B7)+9	C7+0.4*(C2-C7)+9	D7+0.4*(D2-D7)+9	E7+0.4*(E2-E7)+6	F7+0.4*(F2-F7)	G7+0.4*(G2-G7)-6	H7+0.4*(H2-H7)-9
A7+0.2*(A2-A7)+6	B7+0.2*(B2-B7)+6	C7+0.2*(C2-C7)+6	D7+0.2*(D2-D7)+6	E7+0.2*(E2-E7)+4	F7+0.2*(F2-F7)	G7+0.2*(G2-G7)-4	H7+0.2*(H2-H7)-6
A7	B7	C7	D7	E7	F7	G7	H7
A7+0.2*(A12-A7)-6	B7+0.2*(B12-B7)-6	C7+0.2*(C12-C7)-6	D7+0.2*(D12-D7)-6	E7+0.2*(E12-E7)-4	F7+0.2*(F12-F7)	G7+0.2*(G12-G7)+4	H7+0.2*(H12-H7)+6
A7+0.4*(A12-A7)-9	B7+0.4*(B12-B7)-9	C7+0.4*(C12-C7)-9	D7+0.4*(D12-D7)-9	E7+0.4*(E12-E7)-6	F7+0.4*(F12-F7)	G7+0.4*(G12-G7)+6	H7+0.4*(H12-H7)+9
A7+0.6*(A12-A7)-9	B7+0.6*(B12-B7)-9	C7+0.6*(C12-C7)-9	D7+0.6*(D12-D7)-9	E7+0.6*(E12-E7)-6	F7+0.6*(F12-F7)	G7+0.6*(G12-G7)+6	H7+0.6*(H12-H7)+9
A7+0.8*(A12-A7)-6	B7+0.8*(B12-B7)-6	C7+0.8*(C12-C7)-6	D7+0.8*(D12-D7)-6	E7+0.8*(E12-E7)-4	F7+0.8*(F12-F7)	G7+0.8*(G12-G7)+4	H7+0.8*(H12-H7)+6
A12	B12	C12	D12	E12	F12	G12	H12
A7+1.2*(A12-A7)+9	B7+1.2*(B12-B7)+9	C7+1.2*(C12-C7)+9	D7+1.2*(D12-D7)+9	E7+1.2*(E12-E7)+6	F7+1.2*(F12-F7)	G7+1.2*(G12-G7)-6	H7+1.2*(H12-H7)-9

COLUMNS

9 (I)	10 (J)	11 (K)	12 (L)	13 (M)	14 (N)	15 (O)	16 (P)
I7+1.2*(I2-I7)+9	J7+1.2*(J2-J7)+9	K7+1.2*(K2-K7)+9	L7+1.2*(L2-L7)+9	M7+1.2*(M2-M7)+6	N7+1.2*(N2-N7)	O7+1.2*(O2-O7)-6	P7+1.2*(P2-P7)-9
I2	J2	K2	L2	M2	N2	O2	P2
I7+0.8*(I2-I7)-6	J7+0.8*(J2-J7)-6	K7+0.8*(K2-K7)-6	L7+0.8*(L2-L7)-6	M7+0.8*(M2-M7)-4	N7+0.8*(N2-N7)	O7+0.8*(O2-O7)+4	P7+0.8*(P2-P7)+6
I7+0.6*(I2-I7)-9	J7+0.6*(J2-J7)-9	K7+0.6*(K2-K7)-9	L7+0.6*(L2-L7)-9	M7+0.6*(M2-M7)-6	N7+0.6*(N2-N7)	O7+0.6*(O2-O7)+6	P7+0.6*(P2-P7)+9
I7+0.4*(I2-I7)-9	J7+0.4*(J2-J7)-9	K7+0.4*(K2-K7)-9	L7+0.4*(L2-L7)-9	M7+0.4*(M2-M7)-6	N7+0.4*(N2-N7)	O7+0.4*(O2-O7)+6	P7+0.4*(P2-P7)+9
I7+0.2*(I2-I7)-6	J7+0.2*(J2-J7)-6	K7+0.2*(K2-K7)-6	L7+0.2*(L2-L7)-6	M7+0.2*(M2-M7)-4	N7+0.2*(N2-N7)	O7+0.2*(O2-O7)+4	P7+0.2*(P2-P7)+6
I7	J7	K7	L7	M7	N7	O7	P7
I7+0.2*(I12-I7)+6	J7+0.2*(J12-J7)+6	K7+0.2*(K12-K7)+6	L7+0.2*(L12-L7)+6	M7+0.2*(M12-M7)+4	N7+0.2*(N12-N7)	O7+0.2*(O12-O7)-4	P7+0.2*(P12-P7)-6
I7+0.4*(I12-I7)+9	J7+0.4*(J12-J7)+9	K7+0.4*(K12-K7)+9	L7+0.4*(L12-L7)+9	M7+0.4*(M12-M7)+6	N7+0.4*(N12-N7)	O7+0.4*(O12-O7)-6	P7+0.4*(P12-P7)-9
I7+0.6*(I12-I7)+9	J7+0.6*(J12-J7)+9	K7+0.6*(K12-K7)+9	L7+0.6*(L12-L7)+9	M7+0.6*(M12-M7)+6	N7+0.6*(N12-N7)	O7+0.6*(O12-O7)-6	P7+0.6*(P12-P7)-9
I7+0.8*(I12-I7)+6	J7+0.8*(J12-J7)+6	K7+0.8*(K12-K7)+6	L7+0.8*(L12-L7)+6	M7+0.8*(M12-M7)+4	N7+0.8*(N12-N7)	O7+0.8*(O12-O7)-4	P7+0.8*(P12-P7)-6
I12	J12	K12	L12	M12	N12	O12	P12
I7+1.2*(I12-I7)-9	J7+1.2*(J12-J7)-9	K7+1.2*(K12-K7)-9	L7+1.2*(L12-L7)-9	M7+1.2*(M12-M7)-6	N7+1.2*(N12-N7)	O7+1.2*(O12-O7)+6	P7+1.2*(P12-P7)+9

WO 99/11054
PCT/US98/17920
09/485940

FIG. 12



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